

Two main Boilers for Standard Engines Blair &amp; Co. 1899

Indbkt 10380.

## REPORT ON BOILERS.

No. 71371

Received at London Office

W. 23007 1918

Date of writing Report 28<sup>th</sup> Oct. 1918 When handed in at Local Office 29 OCT 1918 Port of NEWCASTLE-ON-TYNENo. in Survey held at Newcastle Date, First Survey 2<sup>nd</sup> Dec. 1914 Last Survey 191  
Reg. Book. on the (Number of Visits) Tons } Gross  
NetMaster Built at Stockton By whom built Richardson Tuck & Co When built  
Engines made at Stockton By whom made Blair & Co No. 1899 When made  
Boilers made at Newcastle By whom made Wallsend Slipway & Eng Co 312B When made 1918  
Registered Horse Power Owners Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.** Manufacturers of Steel Schuttly & Co & J. Spence & Co

(Letter for record S) Total Heating Surface of Boilers 6204 sq ft Is forced draft fitted Yes No. and Description of Boilers Two, single-ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 25.10.18

No. of Certificate 9173 Can each boiler be worked separately Area of fire grate in each boiler 762 sq ft No. and Description of safety valves to each boiler 1 Pair Spring Area of each valve 11 sq in Pressure to which they are adjusted

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 16' 6" Length 11' 6"

Material of shell plates Steel Thickness 1 15/32 Range of tensile strength 29 1/2 - 33 1/2 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams 8 Lap long. seams 18 S. J. Rivet Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10 1/4

Lap of plates or width of butt straps 22 1/4 Per centages of strength of longitudinal joint rivets 87.3 Working pressure of shell by plate 85.36

rules 214 lbs Size of manhole in shell 16" x 12" Size of compensating ring McNeil No. and Description of Furnaces in each boiler 4 - Morrison's Material Steel Outside diameter 45 1/8 Length of plain part top 19" Thickness of plates bottom 32"

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 209 lbs Combustion chamber plates: Material Steel Thickness: Sides 11/16 Back 21/32 Top 11/16 Bottom 1 3/32 Pitch of stays to ditto: Sides 9 5/8 x 7 7/8 Back 8 3/8 x 8 3/8

Top 9 1/16 x 8 3/8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 212 lbs Material of stays Steel Diameter at smallest part 2.03" Area supported by each stay 77 sq in Working pressure by rules 237 lbs End plates in steam space: Material Steel Thickness 1 5/16

Pitch of stays 20 3/8 x 18 1/4 How are stays secured 8. n. Working pressure by rules 214 lbs Material of stays Steel Diameter at smallest part 2.07

Area supported by each stay 346 sq in Working pressure by rules 211 lbs Material of Front plates at bottom Steel Thickness 1 5/16 Material of Lower back plate Steel Thickness 31/32 Greatest pitch of stays 14 5/8 Working pressure of plate by rules 230 lbs Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 3/32 Material of tube plates Steel Thickness: Front 1" Back 25/32 Mean pitch of stays 7 15/32 Pitch across wide water spaces 14" Working pressures by rules 209 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/8 x 1 1/2 Length as per rule 29 7/16 Distance apart 8 3/8 Number and pitch of Stays in each 2 - 9 3/16

Working pressure by rules 207 lbs Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops	1914 Jan 13 Feb 15 19 Mar 9 Apr 19 May 6 Jun 22 Aug 12
During erection on board vessel	1915 Feb 6 Mar 13 Apr 13 May 17 Jun 19 Jul 19 Aug 12 Sep 20 Oct 26

Is the approved plan of boiler forwarded herewith No

forwarded for Blair & Co No 1899

Total No. of visits 43

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These main boilers have been constructed under special survey & the materials & workmanship are found good.

Survey Fee £ See accompanying Machinery report When applied for, 191

Travelling Expenses (if any) £ When received, 191

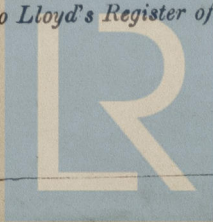
Thomas Field  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE 27 MAY 1918

Assigned

See accompanying report for Indbkt 10380



Lloyd's Register  
Foundation

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